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NOTICE OF ALLOWANCE AND FEE(S) DUE

46320

7590

05/12/2008

CAREY, RODRIGUEZ, GREENBERG & PAUL, LLP STEVEN M. GREENBERG 950 PENINSULA CORPORATE CIRCLE SUITE 3020 BOCA RATON, FL 33487 EXAMINER

ABEL JALIL, NEVEEN

ART UNIT PAPER NUMBER

2165

DATE MAILED: 05/12/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047.860	01/15/2002	John R. Hind	RSW920010181US1 (016)	5123

TITLE OF INVENTION: EDGE DEPLOYED DATABASE PROXY DRIVER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/12/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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(571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 46320 7590 05/12/2008 Certificate of Mailing or Transmission CAREY, RODRIGUEZ, GREENBERG & PAUL, LLP I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. STEVEN M. GREENBERG 950 PENINSULA CORPORATE CIRCLE **SUITE 3020** (Depositor's name BOCA RATON, FL 33487 (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/047.860 01/15/2002 John R. Hind RSW920010181US1 (016) 5123 TITLE OF INVENTION: EDGE DEPLOYED DATABASE PROXY DRIVER APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1440 \$300 \$0 \$1740 08/12/2008 **EXAMINER** ART UNIT CLASS-SUBCLASS ABEL JALIL, NEVEEN 707-010000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/047,860	10/047,860 01/15/2002 John R. Hind			5123	
CAREY, RODRIGUEZ, GREENBERG & PAUL, LLP STEVEN M. GREENBERG			EXAMINER		
			ABEL JALIL, NEVEEN		
			ART UNIT	PAPER NUMBER	
950 PENINSULA SUITE 3020	CORPORATE CIRCL	E	2165		
30111 3020			DATE MAILED: 05/12/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 660 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 660 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability Applicanton No. Applicant(s) HIND ET AL				
Notice of Allowability Examiner Neven Abel-Jaili 2165		Application No.	Applicant(s)	
Neveen Abel-Jaili 2165		10/047,860	HIND ET AL.	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed und course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiati of the Office or upon petition by the applicant. See 37 CFR.1319 and MPEP 1309. 1. ☑ This communication is responsive to Board of Appeals Decision 1/8/08. 2. ☑ The allowed claim(s) isfare 1-19. 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftper	Notice of Allowability	Examiner	Art Unit	
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously malled), a Notice of Allowance (PTOL-85) or other appropriate communication will be main in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiation of the Office or upon petition by the applicant. See 37 OFR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to Board of Appeals Decision 1/8/08. 2. ☑ The allowed claim(s) is/are 1-19. 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)·(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17-2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.34(c)) should be written on the drawings in the front (not the back) of sech sheek. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). Attachment(s) Attachment(s)		Neveen Abel-Jalil	2165	
2. \[\text{The allowed claim(s) is/are \frac{1-19}{2}. \] 3. \[\text{Acknowledgment is made of a claim for foreign priority under 35 U.S.C. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT ROT the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a) or other appropriate communicati (IGHTS. This application is subjects) and MPEP 1308.	application. If not included ion will be mailed in due course. THIS	e
3.	1. X This communication is responsive to <u>Board of Appeals De</u>	<u>ecision 1/8/08</u> .		
a) All b) some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) by Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.34(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's Comment regarding ReQuirement FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of References Cited (PTO-892) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. Examiner's Amendment/Comment Paper No./Mail Date 8. Examiner's Statement of Reasons for Allowance of Biological Material	2. ☑ The allowed claim(s) is/are <u>1-19</u> .			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) □ Interview Summary (PTO-413), Paper No./Mail Date □ Examiner's Comment Regarding Requirement for Deposit of Biological Material □ Other /Neveen Abel-Jalil/ 	a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Lidentifying indicia such as the application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in the company of the	e been received. e been received in Application No. becuments have been received in the formal of this communication to file a report of this application. Initted. Note the attached EXAMINE res reason(s) why the oath or declars to be submitted. Is son's Patent Drawing Review (PT or Amendment / Comment or in the comment or in the comment of the comm	is national stage application from the bis national stage application from the bis national stage application from the bis national stage application from the requirements ER'S AMENDMENT or NOTICE OF aration is deficient. FO-948) attached To-948) attached To Office action of the back) of the part of t	
,,	 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	 6. ☐ Interview Summa Paper No./Mail I 7. ☑ Examiner's Amer 8. ☑ Examiner's State 9. ☐ Other /Neveen Abel-Jalil/ 	ary (PTO-413), Date ndment/Comment ment of Reasons for Allowance	

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DETAILED ACTION

Remarks

1. In response to Board of Appeals decision rendered January 8, 2008, claims 1-19

are now pending.

2. Note: Applicant's "computer system" of claim 1 is taken to inherently requiring

and comprsining hardware as evident in Figure 1, 150, and paragraph 0040 (published

version) of Applicant's specificaiton.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no

later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Scott D. Paul (Attorney of Record) on May 7, 2008 and May 8, 2008.

Amendments to the Claims:

4. This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listings of Claims:

1. (Currently Amended) A database access <u>computer</u> system comprising:

network.

a universal database connectivity driver having a first exposed interface through which access to a database server is can be provided;

a database proxy driver registered with said universal database connectivity driver, said database proxy driver:

having a second exposed interface <u>conforming</u> which conforms with said first exposed interface of said universal database connectivity driver, said <u>database proxy driver having a configuration for</u>

invoking at least one auxiliary task, and in addition to

providing access to said database server through said first exposed

interface of said universal database connectivity driver; and,

a database driven application programmatically linked to said database proxy

2. (Currently Amended) The database access <u>computer</u> system of claim 1, wherein each of said universal database connectivity driver, database proxy driver and database driven application are disposed in an edge device in a computer communications

driver through said second exposed interface.

- 3. (Currently Amended) The database access <u>computer</u> system of claim 2, wherein said auxiliary task is load balancing.
- 4. (Currently Amended) The database access <u>computer</u> system of claim 1, wherein said auxiliary task is caching.

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5. (Currently Amended) The database access <u>computer</u> system of claim 1,

further comprising:

a log file of data request meta-information; and,

an application analyzer configured to tune operation of said auxiliary task based

upon said meta-information.

6. (Currently Amended) A database access method within a database proxy

<u>driver</u>, the method comprising:

receiving a database connectivity request, from a database driven application,

through a corresponding first second exposed interface database connectivity method

from a database driven application;

forwarding said database connectivity request, to an universal underlying database

connectivity driver, through a corresponding first second exposed interface method

having a method prototype which matches a method prototype of said first second

exposed interface database connectivity method; and,

performing at least one auxiliary task in addition to forwarding said database

connectivity request.

7. (Original) The database access method of claim 6, further comprising

performing each of the receiving, forwarding and performing steps in an edge device.

8. (Original) The database access method of claim 7, wherein said performing step comprises performing a load balancing task.

- 9. (Original) The database access method of claim 7, wherein said performing step comprises performing a database caching task.
- 10. (Original) The database access method of claim 6, further comprising: collecting meta-data for each received database connectivity request; and, modifying operation of said auxiliary task based upon an analysis of said collected meta-data.
- 11. (Original) The database access method of claim 10, wherein said modifying step comprises generating rules which direct database connectivity requests to particular instances of a database server which are most likely to respond quickly based upon database latency patterns inherent in said collected meta-data.
- 12. (Original) The database access method of claim 11, wherein said modifying step comprises selectively caching result sets in a database cache based upon request frequency patterns inherent in said collected meta-data.
- 13. (Currently Amended) A machine readable storage having stored thereon a computer program for providing database access, the computer program comprising a

routine set of instructions for causing the machine to perform the steps within a database proxy driver of:

receiving a database connectivity request, from a database driven application, through a corresponding first second exposed interface database connectivity method from a database driven application;

forwarding said database connectivity request, to an universal underlying database connectivity driver, through a corresponding first second exposed interface method having a method prototype which matches a method prototype of said first second exposed interface database connectivity method; and,

performing at least one auxiliary task in addition to forwarding said database connectivity request.

- 14. (Original) The machine readable storage of claim 13, further comprising performing each of the receiving, forwarding and performing steps in an edge device.
- 15. (Original) The machine readable storage of claim 14, wherein said performing step comprises performing a load balancing task.
- 16. (Original) The machine readable storage of claim 14, wherein said performing step comprises performing a database caching task.
 - 17. (Original) The machine readable storage of claim 13, further comprising: collecting meta-data for each received database connectivity request; and,

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modifying operation of said auxiliary task based upon an analysis of said collected meta-data.

18. (Original) The machine readable storage of claim 17, wherein said modifying step comprises generating rules which direct database connectivity requests to particular instances of a database server which are most likely to respond quickly based upon database latency patterns inherent in said collected meta-data.

19. (Currently Amended) The machine readable storage access method of claim 17, wherein said modifying step comprises selectively caching result sets in a database cache based upon request frequency patterns inherent in said collected meta-data.

Allowance

- 5. Claims 1-19 are allowed over the prior art made of record.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Graham (U.S. Pub. No. 2003/0055826 A1) teaches a database interface system that includes a data source driver and an interface facility.

Barga et al. (U.S. Patent No. 6,801,914 B2) teaches proxy driver in the database server side as well as driver manager on the client side.

<u>Vange et al.</u> (U.S. Pub. No. 2002/0004796) teaches distributed database services through a gateway proxy server.

Marks et al. (U.S. Pub. No. 2003/0074632) teaches master proxy server for session management.

<u>Cook</u> (U.S. Patent No. 7,111,052) teaches user based proxy and subscriber proxy working as dynamic proxies.

Barry et al. (U.S. Patent No. 7,225,249) teaches providing integrated communication at mid-range server acting as the proxy.

For complete list of cited relevant art, see PTO-form 892.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neveen Abel-Jalil whose telephone number is 571-272-4074. The examiner can normally be reached on 8:30AM-5:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christian P. Chace can be reached on 571-272-4190. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Neveen Abel-Jalil Primary Examiner May 8, 2008 /Neveen Abel-Jalil/

Primary Examiner, Art Unit 2165